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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,965	08/14/2006	Magnus Aslund	P32379 USA	8594
20802 7590 12/11/2007 SYNNESTVEDT LECHNER & WOODBRIDGE LLP P O BOX 592			EXAMINER	
			SONG, HOON K	
112 NASSAU STREET PRINCETON, NJ 08542-0592			ART UNIT	PAPER NUMBER
			2882	
			MAIL DATE	DELIVERY MODE
			12/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
·	10/597,965	ASLUND, MAGNUS			
Office Action Summary	Examiner	Art Unit			
	Hoon Song	2882			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	<u>_</u> ·				
2a) This action is FINAL . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-27 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-27</u> is/are rejected.					
7) Claim(s) is/are objected to.	r cloation requirement				
8) Claim(s) are subject to restriction and/or	election requirement.	•			
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 14 August 2006 is/are:					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)☐ Some * c)☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/12/06,10/24/06.	5) Notice of Informal P 6) Other:	atent Application			
LS Patent and Trademark Office					

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DETAILED ACTION

Claim Objections

Claim 2 is objected to because of the following informalities:

In claim 2 at line 2, "object thickness" should read --a thickness of the object--.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 27 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 27 claim(s) a computer program. Computer programs are not physical "things."

They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized. In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 24 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 19, the claim 19 is not further defining its preceding claim, claim 1 and it is unclear which method is used to calculate the view velocity of the scanning.

Regarding claim 24 at line 7, "arrangement for comparing" is functional or operational language. The structure which goes to make up the device must be clearly and positively specified. It is unclear how the arrangement is comparing the counting.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-14 and 16-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Francke et al. (US 2004/0141588) (see US 6873682B2 for reference).

Regarding claims 1, 4, 6-14, 16-18 and 21-27, Francke teaches a method, apparatus or program medium for controlling exposure time having:

an x-ray source 81,

a displaceable photo count detector 86 and

a computing means 91 which is comparing a counted number of photon 63 from a sensor with a pre-set value 65 and controlling the speed of the detector displacement with respect to a

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result 66 obtained from a signal form the sensor corresponding to a density of an object to be examined under the scanning movement (figure 4, column 7 lines 16-23).

Regarding claim 2, Francke teaches the target value is calculated from a thickness of the object and spectrum incident on the object (column 2 line 64).

Regarding claim 3, Francke teaches the signal is acquired from a distance number of regions on the detector.

Regarding claim 5, Francke teaches a distance the detector moves between readout defines pixels in the scanning direction as a first dimension, and in a second dimension, the detector comprises actual pixels (figure 3).

Regarding claim 20, Francke teaches the step of setting the ROI including deciding a scanning direction, change an ROI that will enter the object first and checking that the ROI has a sufficient number of operative detector elements working else choosing next appropriate ROI (column 6 line 66 – column 7 line 10).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Francke.

Regarding claim 15, Francke fails to teach the claimed new velocity formula.

Formulating an exposure control is known in the art.

It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the relation ship between the optimized scanning speed in view counting rate of Francke with the known formula, since it would easier to compute the new velocity.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoon Song whose telephone number is (571) 272-2494. The examiner can normally be reached on 9:30 AM - 7 PM, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Edward Glick can be reached on (571) 272 - 2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

Primary Examiner

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